

ONS Implementation

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Five Concerns about the Joint Proposal

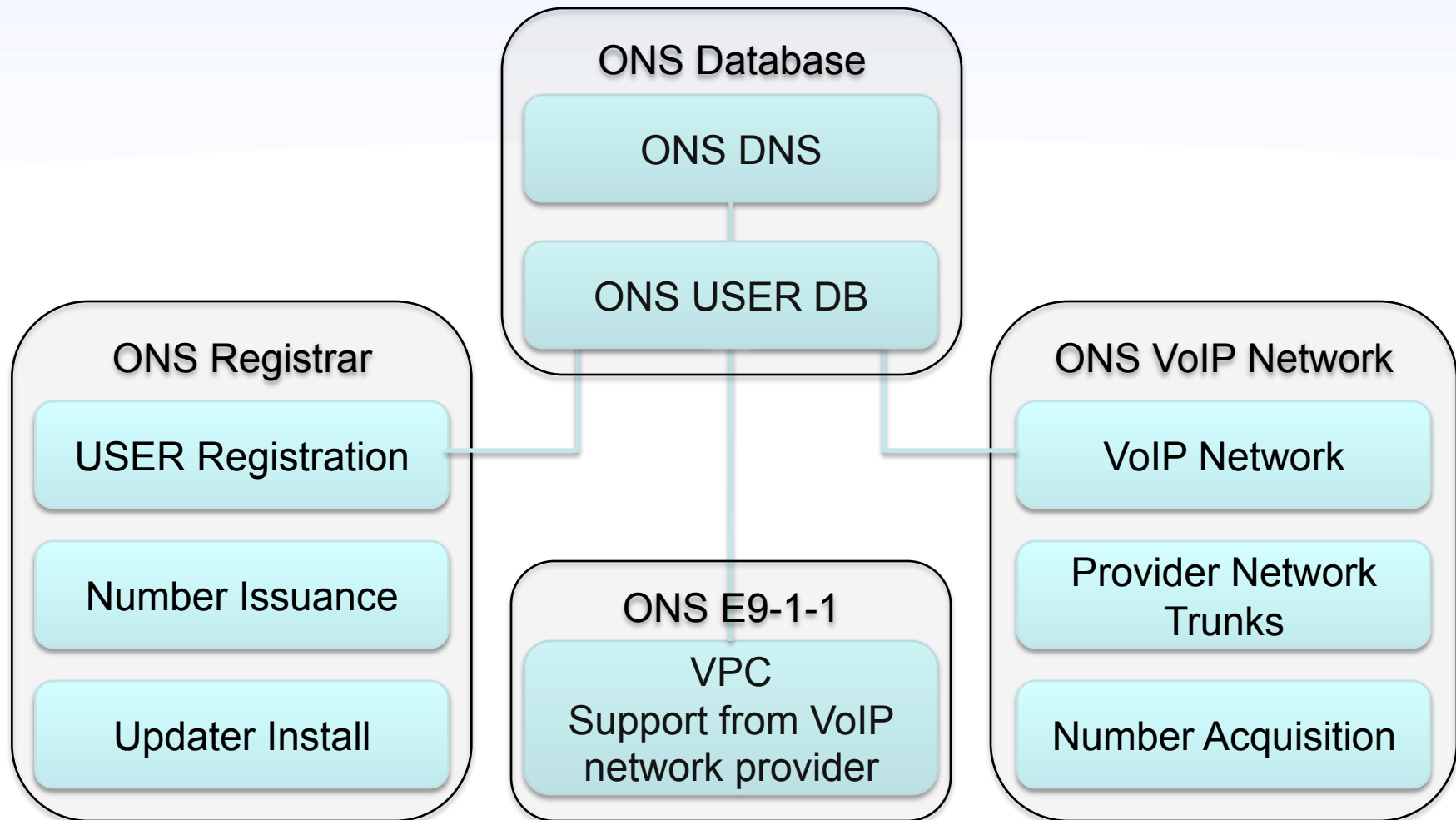
- Closed system...VPs outside are excluded
- Phone number is tied to a provider's device
- Providers control change...it's their system
- Automatic E9-1-1 support is provider based
- Must also have URI for a complete system



System Attribute Comparison

Critical Attributes	CSDVRS Proposal	Joint Proposal	Neustar Proposal
System type	Open	Closed	Closed
Phone Number Association	User	Device	Device
Universal E9-1-1	Yes	No	No
Operational System	Yes	No	No
Capable of rapid implementation	Yes	No	No
Providers required for Deaf to Deaf calls	0	1	2
Cost effective and low cost	Yes	No	No
Supports current VP base	Yes	Yes	No

ONS Architecture



ONS Registrar

ONS Registrar

USER Registration

Number Issuance

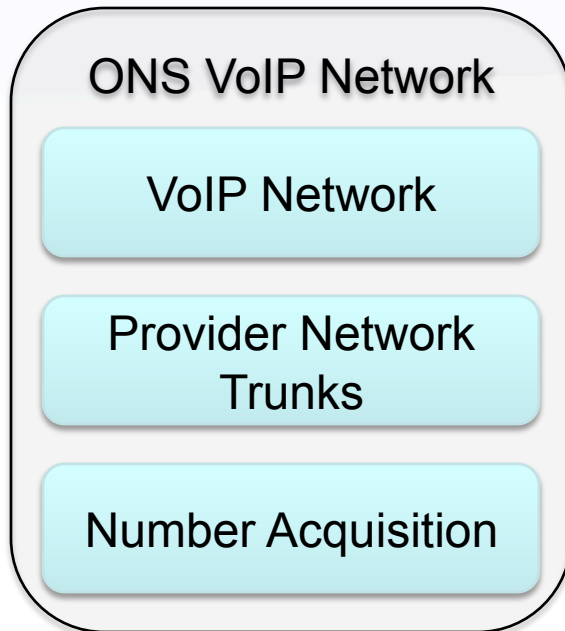
Updater Install

- Application for user registration, issuing and management of phone numbers and management of the user location information
- Updates the ONS USER DB

Timeline					
Item	Status	Specify	Develop	Test	Production
Develop ONS User DB and Registration Web Application	TBD	May-08	Jun-08	Jul-08	Aug-08
Number Issuance	TBD	May-08	Jun-08	Jul-08	Aug-08
Updater Software and Hardware	Available				May-08
Costs					
10 Digit Numbers	\$.75/number/month				
Number Porting	\$5/number				
ONS USER DB Monthly Service	\$30,000/month (\$.30/number/month)*				
* based on 100,000 numbers					



ONS VoIP Network



- VoIP network for termination of PSTN calls
- SIP trunks to each provider
- E9-1-1 support included on SIP trunk
- Providers will need softswitch for SIP trunks and ANI insertion for E911 calls

Timeline					
Item	Status	Specify	Install	Test	Production
Select wholesale carrier and VoIP network	TBD	May-08	Jun-08	Jun-08	Jul-08
Install SIP Trunks	TBD	May-08	Jun-08	Jul-08	Jul-08
Item	Status	Specify	Develop	Test	Production
Develop Application to manage ENUM	TBD	May-08	Jun-08	Jun-08	Jul-08
Develop Application for ONS User DB to update VPC	TBD	May-08	Jun-08	Jul-08	Aug-08
Costs					
SIP Channels for In & outbound calls	\$17/channel				
Common VPC charge	\$200,000/month (\$2/number/month)*				
* based on 100,000 numbers					

ONS Database

ONS Database

ONS DNS

ONS USER DB

- ONS Dynamic DNS database service
- ONS USER Database system management

Timeline					
Item	Status	Specify	Develop	Test	Production
Develop ONS USER DB	TBD	May-08	Jun-08	Jun-08	Jul-08
Develop ONS DNS	Available				May-08
Costs					
ONS DNS Monthly Service		\$50,000/month (\$.5/number/month)			
* based on 100,000 numbers					



Timeline and Pro Forma Cost

Implementation Schedule					
Item		May-08	Jun-08	Jul-08	Aug-08
Develop ONS User DB and Registration Web Application		Specify	Develop	Test	Production
Number Issuance		Specify	Develop	Test	Production
Select wholesale carrier and VoIP network		Specify	Install	Production	
Select and Install SIP Trunks		Specify	Install	Production	
Develop Application to manage ENUM		Specify	Develop	Test	Production
Develop Application for ONS User DB to update VPC		Specify	Develop	Test	Production
Pro Forma Monthly Cost - Provider view					
Assumptions					
200,000 minutes outbound LD per month					
50,000 minutes inbound LD per month					
50 SIP channels required for peak call volume					
5,000 10 digit numbers					
250 numbers ported in monthly					
500 numbers issued monthly					
40 "updater" routers issued					
LD costs \$.018/minute (in & outbound)					
Costs	Rate	Quantity	Price		
LD Charges	\$0.018	250,000	\$4,500		
SIP Channels	\$17.00	50	\$850		
Number charge	\$0.75	5,750	\$4,313		
Porting charge	\$5.00	250	\$1,250		
ONS DB charge*	\$0.50	5,750	\$2,875		
Common VPC charge*	\$2.00	5,750	\$11,500		
"Updater router"	\$17.00	250	\$4,250		
* includes 500 new and 250 ported in numbers			\$29,538		
Revenue					
200,000 VRS minutes	\$6.50	200,000	\$1,300,000		
ONS cost as percent of revenue	2.3%				

ONS...is the choice

- Proven system...basic system operating today...hardware and software
- Universal E9-1-1 support from the start
- Rapid development and implementation
- Minimal interface development for providers
- Cost effective
- Support for migration to SIP



Questions

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